

## REMARKS

The present response is to the Office Action mailed in the above referenced case on January 10, 2006. Claims 1-2, 4-9, 11-16, and 18-21 are standing for examination. Claims 1-21 are rejected under 35 U.S.C 103(a) as being unpatentable over Mizumoto of record, in view of Pascoe et al. of record, and further in view of Haruki (US 4,246,539), hereinafter Haruki.

Applicant has once again carefully studied the prior art cited and applied by the Examiner, and the Examiner's rejections and statements of the instant office action. In response, applicant has cancelled all standing claims, and has added new claims 22-34. The new claims are drawn to essentially the same subject matter as the cancelled claims, but the changes by amendment would have been a bit clumsy, and perhaps confusing. The new claims are clear.

The applicant has limited the new claims to serving distinct bandwidths in a broadband spectrum for up conversion and down conversion from and to an intermediate frequency by a combination of both sideband selection and frequency doubling, minimizing the local oscillators required.

The Examiner in his remarks in the instant action relies on Mizumoto Fig. 4 and 7 and col. 5 line 44 to col. 6 line 42 for the contribution to the invention of sideband selection. There is nothing in this portion of Mizumoto that describes sideband selection, however, and there is no motivation in any of the art provided to combine the effects of sideband selection and frequency multiplication from a single LO to minimize the requirement for multiple LOs to server a plurality of distinct signal bands.

Applicant therefore believes that independent new claims 22, 27 and 31 are patentable over the art cited and applied, and that claims 23-26, 28-30 and 32-34 are patentable at least as depended from a patentable claim.

As all of the claims standing for examination have been shown to be patentable over the art of record as amended and argued above by applicant, applicant respectfully requests reconsideration, and that the present case be passed quickly to issue. If there are

any time extensions needed beyond any extension specifically requested with this response, such extension of time is hereby requested. If there are any fees due beyond any fees paid with this amendment, authorization is given to deduct such fees from deposit account 50-0534.

Respectfully Submitted,  
Bert L. Fransis

By /Donald R. Boys/  
Donald R. Boys  
Reg. No. 35,074

Central Coast Patent Agency  
P.O. Box 187  
Aromas, CA 95004  
(831) 726-1457